

## **PCT**

### INTERNATIONAL SEARCH REPORT

31 MAY 2005

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference									
PALGE021228	ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.								
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)							
PCT/KR 2002/002263	2 December 2002 (02.12.2002)								
Applicant		1							
LG ELECTRONICS INC.									
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.									
This international search report consists of a total of sheets.									
It is also accompanied by a copy of each prior art document cited in this report.									
<ol> <li>Basis of the report         <ul> <li>With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ul> </li> </ol>									
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).									
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:									
contained in the international application in written form.									
filed together with the international application in computer readable form.									
furnished subsequently to this Authority in written form.									
furnished subsequently (	furnished subsequently to this Authority in computer readable form.								
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.									
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.									
2. Certain claims were fo	und unsearchable (See Box I).	÷							
3. Unity of invention is la	cking (See Box II).								
4. With regard to the title,									
the text is approved as s	ubmitted by the applicant.								
the text has been established	shed by this Authority to read as follows:								
5. With regard to the abstract,									
	ubmitted by the applicant.								
the text has been established	the text is approved as submitted by the applicant.  the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.								
6. The figure of the drawings to be	published with the abstract is Figure No.:6								
as suggested by the appl		None of the figures.							
because the applicant fai									
	er characterizes the invention.	•							
because this figure bene	i characterizes the myenton.								

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A heat exchanger of a ventilating system, including heat exchange plates (50) which are laminated at a predetermined interval and divide an outdoor air path through which outdoor air passes and an indoor air path through which indoor air passes, and a plurality of embossing protrusions (54) which are formed on the outdoor air path divided by the heat exchange plates (50), for generating turbulence in the outdoor air which flows in the outdoor air path, can improve heat transfer performance by controlling development of a boundary layer by differentiating structure of the air flow of an air path through which indoor air passes and an air path through which outdoor air passes.

#### INTERNATION SEARCH REPORT

onal application No.

#### R 2002/002263 CLASSIFICATION OF SUBJECT MATTER IPC7: F28F 3/04, F28D 9/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: F28F, F28D, F24F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, PAJ, EPODOC C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. GB 1336448 A (CENTRE SCIENTIFIQUE ET TECHNIQUE) X 11 7 November 1973 (07.11.1973) figures 1 and 2 with description. Y figures 1 and 2 with description. 1-10 JP 62225894 A (SHOWA ALUM Corp.) 3 October 1987 1-10 (03.10.1987)figure 1 and description. X US 20020005280 A (WITTIG et al.) 17 January 2002 11 (17.01.2002)figure 1 and description. Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: "T" later document published after the international filing date or priority "A" document defining the general state of the art which is not date and not in conflict with the application but cited to understand considered to be of particular relevance the principle or theory underlying the invention "E" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step "L" document which may throw doubts on priority claim(s) or which is when the document is taken alone cited to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination being obvious to a person skilled in the art "P" document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 22 December 2004 (22.12.2004) 7 December 2004 (07.12.2004) Name and mailing adress of the ISA/AT

Authorized officer

Telephone No. 1/53424/448

SCHLECHTER B.

Form PCT/ISA/210 (second sheet) (July 1998)

Dresdner Straße 87, A-1200 Vienna

Austrian Patent Office

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# INTERNATIONAL SEARCH REPORT Information patent family members

emational application No. CT/KR 2002/002263

	Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
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